

► VEHICLE SYSTEMS

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Premiere at Eurosatory 2024

17 June 2024

Option for new generation main battle tanks: Rheinmetall presents the Concept Uncrewed Turret at Eurosatory 2024

Numerous operational experiences and future technologies are currently determining the further development of ground combat systems. Rheinmetall's aim is to develop superior and future-proof solutions. At Eurosatory 2024, Rheinmetall will be presenting the Concept Uncrewed Turret (CUT), the concept demonstrator of an uncrewed turret for a next-generation main battle tank. The premiere will take place on 17 June 2024 at 16:00 at the Rheinmetall stand E115/F115.

The main armament of the CUT is Rheinmetall's 130mm Future Gun System with 51 calibre lengths. Ammunition is fed via the bustle-mounted autoloader from two magazines in the rear of the turret. The ammunition capacity consists of 25 cartridges. A coaxial .50 heavy machine gun is also fitted. The commander's Main Sensor Slaved Armament (MSSA) remote controlled weapon station is equipped with a Rheinmetall RMG762 machine gun. This has three rotating barrels; if one is hot-fired, another barrel is brought into firing position and the machine gun is ready to fire again. Thanks to its high firepower, the RMG762 is also suitable for fighting small UAVs drones. The commander's MSSA remote controlled weapon station also has an integrated smoke grenade launcher.

Both the commander and gunner, who like the other crew members are housed in the chassis of the platform, have their own day and night vision optics with integrated laser rangefinders. The gunner uses the modern SEOSS 400 optics. This is also installed in the commander's MSSA. As the commander and gunner can observe independently of each other and both assign and engage targets. Hence, the crewless turret has both a hunter-killer and a killer-killer capability. The reconnaissance capability can be further enhanced with small on-board reconnaissance drones.

The electrically powered turret also houses the fire control system, parts of the C4I equipment and other parts of the sensor system, including a metrological sensor. The SAS (Situational Awareness System) ensures superior situational awareness. Active hard-kill protection systems such as Rheinmetall's Active Protection System (APS) or – as shown at Eurosatory – Iron Fist as well as soft-kill protection systems such as MUSS and the ROSY rapid obscurant system protect the crew and the platform from a wide range of enemy threats. The uncrewed turret is accessible from above via a maintenance hatch.

With the CUT concept demonstrator, Rheinmetall is once again demonstrating its leading role in the development of future-proof systems for the networked battlefields of the future. We look forward to welcoming you to Paris from 17 to 21 June 2024 at our stand E115/F115 on the outdoor exhibition area.

► Key facts

- Concept demonstrator of a crewless turret
- 130mm Future Gun System as main armament
- Hunter-killer and killer-killer capability
- Future-orientated design and flexibility for multi-domain operations

► Contacts

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